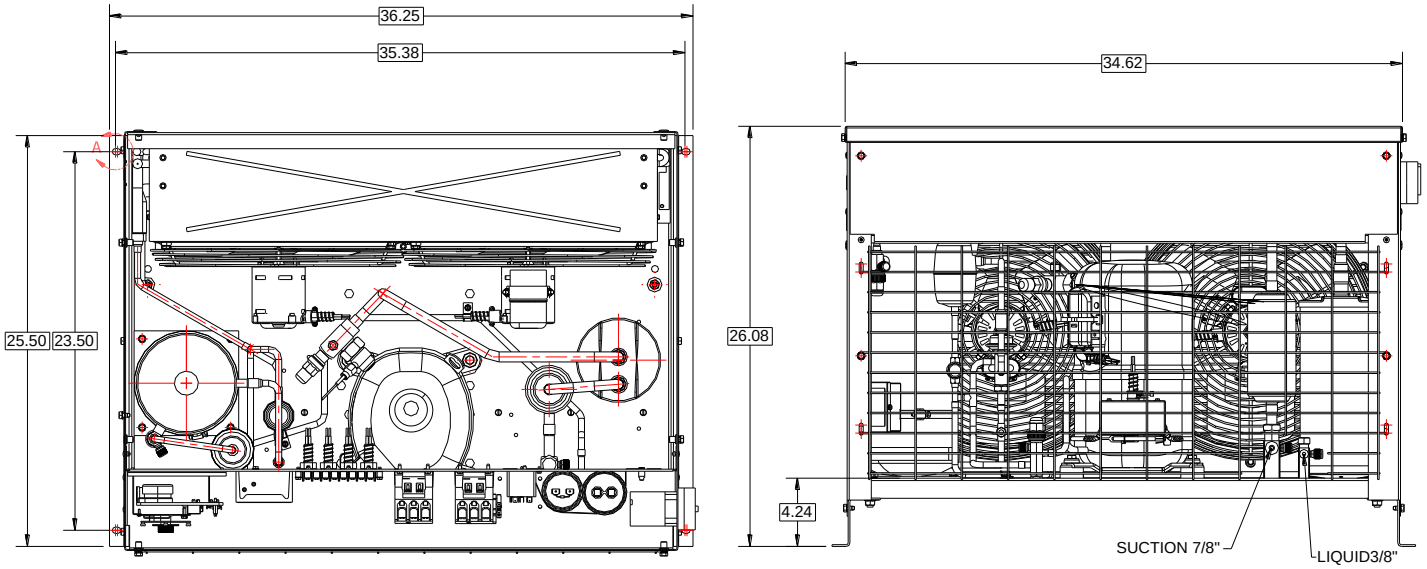
TECUMSEH OUTDOOR CONDENSING UNIT

Model	**AWA9514ZXNHN**
BOM	**32L3238-2E***
Air Cooled	**1 ¾ HP**
Application	**Commercial Temp**
Refrigerant	**R404A**
Volts-Hz-Ph	**208-230/60/1**



AWA9514ZXNHN	Dim. Enclosure, inch *) (mm)			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90% @ 90°F	SCFM	Oz.	Lbs. (kg)
	26.43 (671)	36.25 (921)	26.08 (662)	7/8"	3/8"	19.80 lbs	1750	38.6	300 (136)

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temperatures														
		80°F			90°F			95°F			100°F			110°F		
T, °F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-10	23.2	7600	1640	92	6400	1620	101	5900	1600	105	5400	1580	110	4600	1540	119
-5	27.5	8700	1750	93	7400	1740	102	6800	1720	107	6200	1700	111	5400	1670	121
0	32.1	9800	1860	95	8500	1850	104	7800	1840	108	7200	1830	113	6200	1810	122
5	37.0	11200	1960	97	9700	1970	106	9000	1970	110	8300	1960	115	7200	1950	123
10	42.4	12600	2070	99	11000	2090	107	10300	2090	112	9500	2090	116	8200	2090	125
15	48.2	14200	2180	101	12500	2210	109	11600	2220	114	10800	2220	118	9300	2230	127
20	**54.5**	**15900**	**2290**	**103**	**14000**	**2330**	**111**	**13100**	**2340**	**116**	**12200**	**2350**	**120**	**10500**	**2370**	**128**
25	61.2	17700	2390	105	15700	2450	113	14700	2470	118	13700	2480	122	11900	2510	130
30	68.4	19600	2500	107	17500	2570	115	16400	2590	120	15300	2620	124	13300	2660	132
35	76.1	21700	2610	109	19400	2690	117	18200	2720	122	17000	2750	126	14800	2800	134
40	84.4	23800	2720	111	21400	2810	120	20100	2850	124	18900	2880	128	16400	2940	136
45	93.2	26100	2830	114	23500	2930	122	22200	2980	126	20800	3010	130	18100	3090	138

Performance @ 60 Hz, Return gas 40°F below 20°F Evaporator and 65°F above 20°F evaporator, SubCooling 5°F

*** OPTION CODE:** See reverse side for Available Options

Parts/Specifications

STANDARD

Unit BOM	**32L3238-2E**	Fan Motor	810F050C20
Unit MODEL	**AWA9514ZXNHN**	Replacement Fan Motor	50W230
		Fan Motor Qty	2
Refrigeration Range	-10°F to 45°F	Fan Motor RLA	0.7
Design Pressure Low / High	181 / 450	Fan Blade	51568-1
Volts - HZ - Ph	208-230V ~ 60HZ	Fan Guard	70831
Voltage Range	187 - 253	Shroud	70648-2
Min. Circuit Ampacity	17.15		
Max. Fuse Size	30	High Pressure Switch	84095-2L
		Low Pressure Control	84026-2
Compressor MODEL	AWA9512ZXN	Dual Pressure Conrol	
Compressor BOM	AW611FT-099-A2		
Compressor LRA	60	Head Master Valve	70083
Compressor RLA	12.44	Check Valve	56626
		Process Valve	
OverLoad	Internal	Discharge Valve (Base)	56618
Replacement Kit - O/L		Liquid Valve (Base)	56500-K06
Relay	820ARR3J50	Liquid Valve (Receiver)	attached
Replacement Kit - Relay	K71-19	Suction Valve (Base)	56500-K14
Run Capacitor	85PR370F17	Suction Valve (Rotolock)	31583-1
Run Capacitor Rating	35MFD 370V		
Start Capacitor	85PS330D68	Condenser	50855-1
Start Capacitor Rating	130-156 MFD 330V	Receiver	51099-2L
Contactor	91014B	Accumulator	TK00042000
		Liquid Filter	70139
Unit Drawing	DGU1918-L103	Sight Glass	70084-S
Wiring Diagram	WD21-2XT2	Suction Filter	70822-5S
Wiring Diagram (A or F opt.)	WD21-2AT2	CrankCase Heater	91022-1

AVAILABLE OPTIONS

32Lxxxx-2ER(F)ATnD

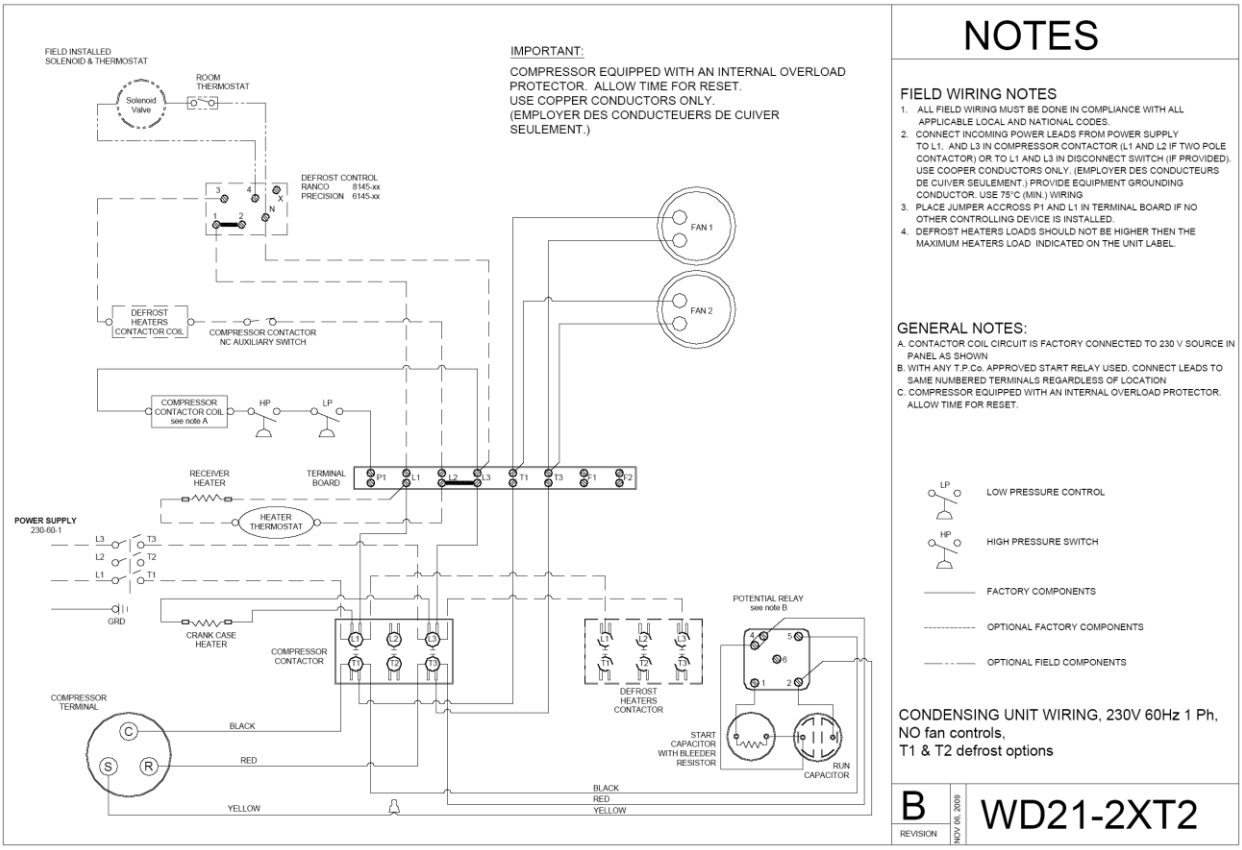
R Heated/Insulated Receiver
F Fixed Fan Control
A Adjustable Fan Control
T1 Air Defrost Timer
T2 Electrical Defrost Timer & Defrost Heater Contactor
D Disconnect Switch (nonfused)

AVAILABLE ACCESSORIES

Solenoid Valve (supplied loose)	KSVC-264
Hail Louver Assy	LLPG-201

REPLACEMENT PARTS

Receiver Heater (R option)	92124-2
Receiver Thermostat (R option)	84102-2
Fixed Fan Control (F option)	84132-1
Adjustable Fan Control (A option)	
Defrost Timer (T1 or T2 option)	84110
Defrost Heater Contactor and Auxiliary Switch (T2 opt.)	91014B and 91014-AUX
Disconnect (D option)	


FIELD INSTALLED SOLENOID & THERMOSTAT
Solenoid Valve
ROOM THERMOSTAT
DEFROST CONTROL RANCO 8145-xx PRECISION 6145-xx
DEFROST HEATERS CONTACTOR COIL
COMPRESSOR CONTACTOR N.C AUXILIARY SWITCH
COMPRESSOR CONTACTOR COIL see note A
HP
LP
RECEIVER HEATER
TERMINAL BOARD
HEATER THERMOSTAT
POWER SUPPLY 230-60-1
GRD
CRANK CASE HEATER
COMPRESSOR CONTACTOR
COMPRESSOR TERMINAL
BLACK
RED
YELLOW
DEFROST HEATERS CONTACTOR
POTENTIAL RELAY see note B
START CAPACITOR WITH BLEEDER RESISTOR
RUN CAPACITOR
FAN 1
FAN 2
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
USE COPPER CONDUCTORS ONLY.
(EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
NOTES
FIELD WIRING NOTES
1. ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
2. CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, AND L3 IN COMPRESSOR CONTACTOR (L1 AND L2 IF TWO POLE CONTACTOR) OR TO L1 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COOPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING
3. PLACE JUMPER ACCROSS P1 AND L1 IN TERMINAL BOARD IF NO OTHER CONTROLLING DEVICE IS INSTALLED.
4. DEFROST HEATERS LOADS SHOULD NOT BE HIGHER THEN THE MAXIMUM HEATERS LOAD INDICATED ON THE UNIT LABEL.
GENERAL NOTES:
A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN
B. WITH ANY T.P.Co. APPROVED START RELAY USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION
C. COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
LP LOW PRESSURE CONTROL
HP HIGH PRESSURE SWITCH
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
OPTIONAL FIELD COMPONENTS
CONDENSING UNIT WIRING, 230V 60Hz 1 Ph,
NO fan controls,
T1 & T2 defrost options
B
REVISION
NOV 06, 2009
WD21-2XT2